Amendments to the Claims:

Please amend the claims to read as follows. This listing of claims replaces all prior versions and listings of claims in the application:

- (Withdrawn) A micro-pattern embedded optical film that supports growth, identification and measurement of cells.
- (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern contains straight and curved geometric shapes.
- (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern contains numbers.
- (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern contains letters.
- (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern has dimensions that range from sub-micron to 5 millimeters.
- 6. (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern contains a coordinate system wherein each location on said optical film may be identified by a set of numbers or letters or combination of numbers and letters.
- 7. (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern contains a first side and a second side, wherein said first side contains embedded micro-patterns, wherein said second side contains no micro-pattern.
- 8. (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said micro-pattern contains a first side and a second side, wherein said first side and said second side both contain embedded micro-patterns.
- (Withdrawn) The micro-pattern embedded optical film as defined in claim1, wherein said optical film has a plastic substrate.

- 10. (Canceled)
- 11. (Canceled)
- 12. (Canceled)
- 13. (Canceled)
- 14. (Currently amended) A device for growth, identification and measurement of cells comprising:

a micro-pattern embedded plastic optical film having a plurality of regions formed by contrast features, each of said regions having a unique identifier-and, each of said contrast features having a depth or a height less than five microns and being observable during microscopic viewing; and

a supporting component bonded to said micro-pattern embedded plastic optical film to form a volume for holding a liquid having said cells.

- (Previously presented) The device as defined in claim 14, further comprising a base film.
- (Previously presented) The device as defined in claim 14, wherein said micropattern embedded optical film and said supporting component are bonded by an adhesive layer.
- (Previously presented) The device as defined in claim 16, wherein said adhesive layer comprises a pressure sensitive adhesive.
- (Previously presented) The device as defined in claim 16, wherein said adhesive layer comprises an energy curable adhesive.
- (Previously presented) The device as defined in claim 14, wherein said supporting component has a shape defining a plurality of wells each adapted for performing an assay.

- (Canceled)
- (Canceled)
- 22. (Canceled)
- (Previously presented) The device as defined in claim 15 wherein said base film is a plastic substrate.
- (Previously presented)The device as defined in claim 23 wherein said plastic substrate is a flexible substrate.
- (Currently amended)A device for growth, identification and measurement of cells comprising:

a micro-pattern embedded plastic optical film having a plurality of regions formed by contrast features, each of said regions having a unique identifier, each of said contrast features having a depth or a height less than five microns; and

at least one supporting component attached to said micro-pattern embedded plastic optical film to form a plurality of assay locations for holding liquid having said cells, wherein said cells and said contrast features are observable during microscopic viewing without refocusing.

- 26. (Previously presented)The device as defined in claim 25 wherein said at least one supporting component is formed on said micro-pattern embedded plastic optical film using a material deposition technique.
- (Previously presented)The device as defined in claim 25 wherein said at least one supporting component is bonded to said micro-pattern embedded plastic optical film.
- 28. (Currently amended) A micro-pattern embedded plastic optical film having a plurality of regions formed by contrast features, each of said regions having a unique identifier, each of said contrast features having a depth or a height less than five microns, said micro-pattern

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embedded plastic optical film adapted for attachment to at least one supporting component to form at least one volume for holding a liquid having said cells wherein said contrast features and

said cells are simultaneously observable during microscopic observation.

29. (Currently amended) The micro-pattern embedded plastic optical film as defined

in claim 28 further comprising a base layer, wherein said micro-pattern embedded plastic optical

film comprises a clear plastic layer having a thickness less than saidand a base layer, said clear

plastic layer having said contrast features and said unique identifiers.

30. (New) A device for growth, identification and measurement of cells comprising:

a micro-pattern embedded plastic optical film having a plurality of regions formed

by contrast features, each of said regions having a unique identifier, each of said contrast features being observable during microscopic viewing and having a depth or a height less

than a dimension of the cells to allow cell growth and cell mobility across the contrast

features; and

a supporting component bonded to said micro-pattern embedded plastic optical

film to form a volume for holding a liquid having said cells.

31. (New) The device as defined in claim 30 wherein a depth or a height of each of

said contrast features is less than five microns.

32. (New) The device as defined in claim 14, wherein each of said contrast features

has a depth or a height of less than one micron.

33. (New) The device as defined in claim 25, wherein each of said contrast features

has a depth or a height of less than one micron.

(New) The micro-pattern embedded plastic optical film as defined in claim 28,

wherein each of said contrast features has a depth or a height of less than one micron.

35. (New) The device as defined in claim 30, wherein a depth or a height of each of said contrast features is less than one micron.